

Docket No.: 4600-0130PUS1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Atsushi MARUYAMA

Application No.: 10/591,268

Confirmation No.: 9300

Filed: August 31, 2006

Art Unit: N/A

For: SUBSTANCE CAPABLE OF  
ACCELERATING NUCLEOTIDE CHAIN  
EXCHANGE REACTION

Examiner: Not Yet Assigned

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS**

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements dated April 18, 2007, Applicant respectfully submits:

- ☒ Attached is a copy of the Notification of Missing Requirements (371 Formalities Letter).
- ☒ Attached is the Executed Declaration and Power of Attorney ☒ Original ☐ Photocopy.
- ☐ The specification attached to the executed Declaration and Power of Attorney is a true copy of the specification that was filed in the U.S. Patent and Trademark Office on August 31, 2006, including any amendments thereto (if applicable) filed on even date therewith.
- ☐ The undersigned hereby declares that "Attorney Docket No. 4600-0130PUS1" on page 1 of the attached Inventors' Declaration corresponds to Appl. No. 10/591,268 filed

August 31, 2006 entitled "SUBSTANCE CAPABLE OF ACCELERATING NUCLEOTIDE CHAIN EXCHANGE REACTION."

- ☒ Attached is an English language translation of the above-identified application that was filed in a foreign language, which should be used as the copy for examination purposes.

See the attached Translator's Verification; or

XX The undersigned states that the English translation attached hereto is a true and correct translation of the application as originally filed in a foreign language.

- ☒ Attached are 9 sheet(s) of drawings. Please substitute these replacement drawings for the corresponding 9 sheet(s) of drawings on file in the above-identified application.

- ☒ Attached are substitute claims commencing on a separate sheet in accordance with 37 C.F.R. § 1.75(h). (SEE PAGES 32 AND 33 of the translation specification setting out Article 34 Amendments to the claims).

- ☐ Attached is a substitute abstract commencing on a separate sheet in accordance with 37 C.F.R. § 1.72(b).

- ☐ Attached is a substitute specification that complies with 37 C.F.R. § 1.52. The substitute specification does not contain new matter.

- ☒ Attached is a preliminary amendment.

- ☐ Applicant claims small entity status under 37 C.F.R. § 1.27.

- ☐ Attached is a Supplemental Application Data Sheet (ADS).

- ☐ Submitted concurrently herewith under separate cover for recording is an Assignment.


- ☐ Attached is a Petition for Extension of Time.

- ☒ The Government Filing Surcharge for late filing of oath and/or declaration in the amount of \$130.00 in accordance with 37 C.F.R. §§ 1.494 and 1.492 was previously paid for concurrently with the filing of the application on August 31, 2006.
- ☒ The Government Filing Surcharge for furnishing the English Translation later than 30 months, in the amount of \$130.00 in accordance with 37 C.F.R. § 1.492(i) was previously paid for concurrently with the filing of the application on August 31, 2006.
- ☐ Attached hereto is the fee transmittal listing the required fees.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: June 18, 2007

Respectfully submitted,

By   
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Attachment(s)



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
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 Alexandria, Virginia 22313-1450  
 www.uspto.gov

MSW

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|-----------------------------|-----------------------|------------------|
| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
| 10/591,268                  | Atsushi Maruyama      | 4600-0130PUS1    |

2292  
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*Quinn*  
**DOCKETED**  
*perfect translation*  
*6.18.2007*

|                               |               |
|-------------------------------|---------------|
| INTERNATIONAL APPLICATION NO. |               |
| PCT/JP04/10824                |               |
| I.A. FILING DATE              | PRIORITY DATE |
| 07/29/2004                    | 03/03/2004    |

CONFIRMATION NO. 9300  
 371 FORMALITIES LETTER



\*OC000000023412726\*

Date Mailed: 04/18/2007

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 08/31/2006
- Copy of the International Search Report filed on 08/31/2006
- Copy of IPE Report filed on 08/31/2006
- Information Disclosure Statements filed on 08/31/2006
- Request for Immediate Examination filed on 08/31/2006
- U.S. Basic National Fees filed on 08/31/2006
- Priority Documents filed on 08/31/2006

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Translation of the application into English. Note a processing fee will be required if submitted later than 30 months from the priority date.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

SHELBY J VIGIL

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PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/591,268                  | PCT/JP04/10824                | 4600-0130PUS1    |

FORM PCT/DO/EO/905 (371 Formalities Notice)